

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P274434

Luminaire Tested: **LD6B10DE010W2N2765 EU6B1020W2N902765 6LBLWWOLI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBLWW0LI
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, LENSED WALLWASH WITH SPECULAR FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 817.3 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

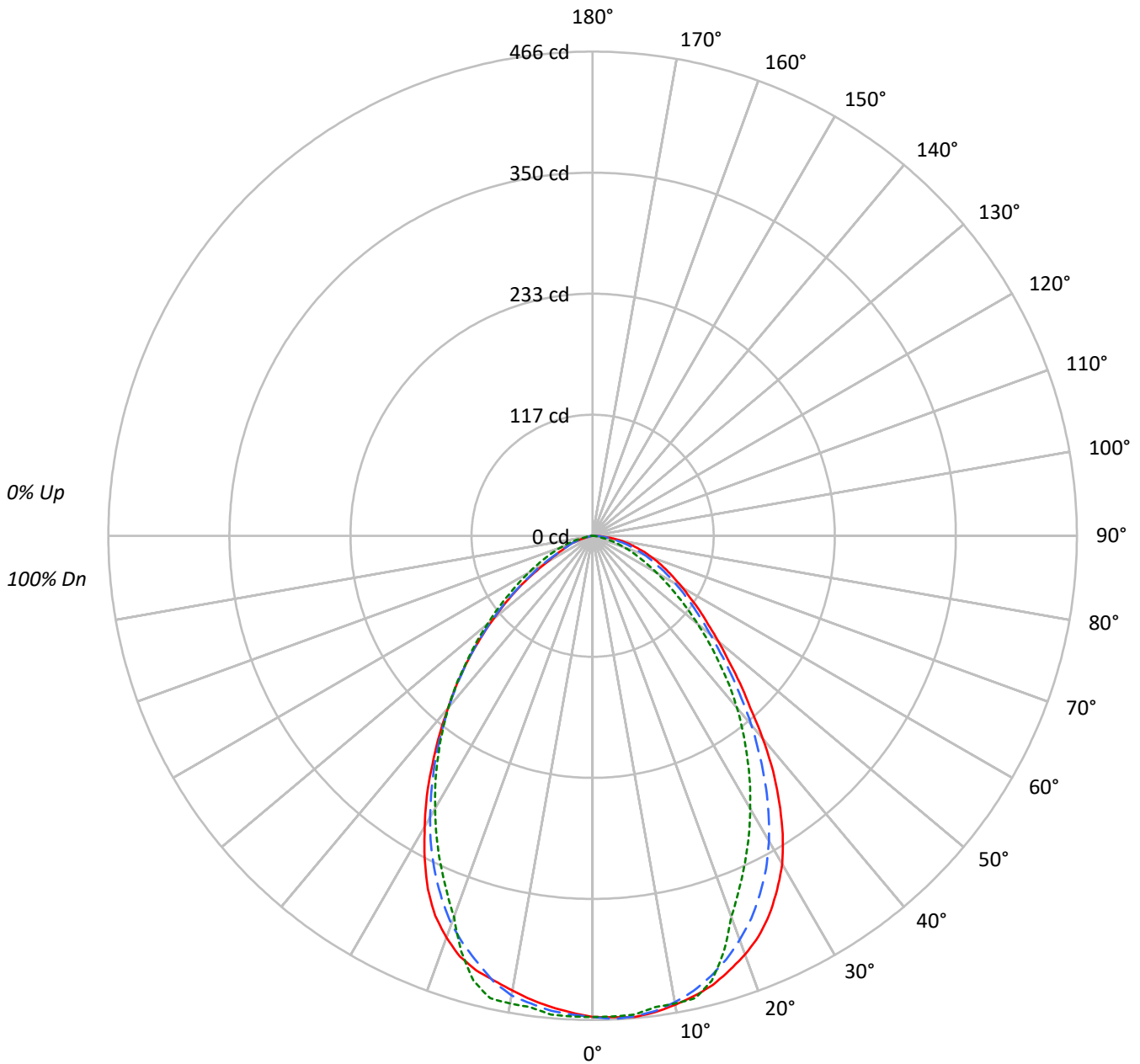
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P274434

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30213	30213	30213
5°	30446	30289	29818
10°	30361	30282	29447
15°	30225	29935	29246
20°	29771	27098	28563
25°	28967	24979	27016
30°	27504	22834	24333
35°	24952	20644	21408
40°	21666	18387	18438
45°	18481	15814	15648
50°	15996	13367	12636
55°	14298	11147	9782
60°	13022	9264	6589
65°	12165	7611	4924
70°	11579	6199	4139
75°	10915	4386	1361
80°	10407	2254	451
85°	8533	1347	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	5.4
10°-20°	122.3	15.0
20°-30°	168.8	20.7
30°-40°	171.8	21.0
40°-50°	138.1	16.9
50°-60°	91.8	11.2
60°-70°	52.3	6.4
70°-80°	23.5	2.9
80°-90°	4.9	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	334.9	41.0
0°-40°	506.7	62.0
0°-60°	736.6	90.1
0°-90°	817.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	817.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	463	463	463	463	463	
5°	465	464	462	459	455	44
15°	448	439	443	426	433	126
25°	402	381	347	358	375	184
35°	313	289	259	264	269	195
45°	200	188	171	170	170	155
55°	126	117	98	87	86	113
65°	79	70	49	32	32	78
75°	43	36	17	7	5	46
85°	11	8	2	1	0	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1
2.5°	463.7	466.1	465.5	464.9	465.5	464.9	463.7	463.7	462.5	462.5	465.5
5°	464.9	466.1	465.5	464.9	464.9	465.5	463.1	463.1	461.9	461.3	464.3
7.5°	462.5	464.3	463.1	463.1	462.5	463.1	460.7	460.7	458.9	458.3	461.3
10°	458.3	460.7	459.5	459.5	459.5	458.3	457.1	456.5	454.7	454.1	455.9
12.5°	453.5	455.3	454.7	453.5	453.5	453.5	451.1	450.5	448.1	446.9	448.7
15°	447.5	448.7	448.1	447.5	446.3	446.3	443.9	442.6	440.2	437.8	439.0
17.5°	438.4	440.2	439.0	438.4	436.6	436.6	434.2	433.0	429.4	427.0	427.6
20°	428.8	429.4	428.8	427.6	425.8	425.2	422.8	420.4	417.4	414.4	413.8
22.5°	417.4	418.0	416.2	415.0	413.2	412.6	409.6	407.8	403.0	399.3	398.7
25°	402.4	403.0	403.0	399.9	398.7	397.5	394.5	391.5	387.3	382.5	380.7
27.5°	384.3	386.1	384.9	381.9	379.5	378.9	375.9	373.5	368.1	363.9	361.5
30°	365.1	364.5	363.9	362.1	358.4	357.8	354.8	351.8	347.6	342.2	339.2
32.5°	340.4	340.4	339.8	338.0	334.4	333.2	330.8	327.2	322.4	318.2	315.1
35°	313.3	313.9	313.3	309.7	307.3	306.1	304.9	300.7	296.5	291.7	289.3
37.5°	285.1	283.3	283.9	280.9	277.9	279.1	275.5	273.6	268.8	265.2	262.8
40°	254.4	255.6	253.2	252.0	250.2	248.4	248.4	245.4	243.0	238.8	237.6
42.5°	224.3	226.1	225.5	224.3	221.9	222.5	219.5	218.3	215.3	213.5	211.7
45°	200.3	200.3	200.3	199.1	198.5	197.3	195.5	193.7	191.9	189.4	188.2
47.5°	176.8	176.8	177.4	176.2	175.0	174.4	173.2	173.2	170.2	167.8	166.6
50°	157.6	157.6	157.6	156.4	155.2	155.2	154.0	152.8	151.0	149.2	148.0
52.5°	140.1	140.1	140.1	138.9	138.3	137.7	137.1	136.5	134.1	132.9	131.7
55°	125.7	125.1	125.1	124.5	123.3	123.3	122.7	121.5	119.7	117.9	117.3
57.5°	111.3	111.9	111.3	111.3	110.1	110.1	108.9	108.3	106.5	105.2	104.0
60°	99.8	99.8	99.8	99.2	98.0	98.6	97.4	96.8	95.0	93.2	92.0
62.5°	88.4	89.0	89.0	88.4	87.2	87.2	86.6	86.0	84.2	82.4	80.6
65°	78.8	78.8	78.8	78.2	77.6	77.6	77.0	76.4	74.6	72.2	70.4
67.5°	69.8	69.2	69.2	69.2	68.6	68.0	67.4	66.8	65.0	63.1	60.7
70°	60.7	60.7	60.7	60.1	58.9	59.5	58.9	58.3	56.5	54.7	52.9
72.5°	52.3	52.3	51.7	51.1	51.1	50.5	50.5	49.9	48.1	45.7	43.9
75°	43.3	43.3	43.3	43.3	42.1	42.7	41.5	40.9	39.7	37.9	36.1
77.5°	35.5	35.5	35.5	34.9	34.3	34.3	33.7	33.1	31.3	30.1	27.7
80°	27.7	27.7	27.7	27.7	27.1	26.5	25.9	25.3	24.1	22.3	20.4
82.5°	20.4	20.4	19.8	19.8	19.8	19.2	18.6	18.0	16.8	15.6	14.4
85°	11.4	12.0	12.0	10.8	11.4	10.8	10.8	9.6	9.6	8.4	7.8
87.5°	4.2	3.6	3.6	3.6	3.6	3.6	3.6	3.0	3.0	3.0	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1
2.5°	463.1	462.5	464.9	464.9	461.3	463.1	463.7	462.5	462.5	463.1	461.3
5°	461.9	460.7	463.1	463.7	460.1	461.9	462.5	461.3	461.9	462.5	460.1
7.5°	457.7	457.7	459.5	460.1	456.5	458.3	458.3	457.1	457.7	457.7	455.9
10°	453.5	451.7	453.5	453.5	450.5	451.1	452.3	451.7	454.1	457.1	457.1
12.5°	445.7	443.9	446.9	446.9	445.1	447.5	450.5	452.3	454.7	455.9	452.3
15°	436.0	436.6	442.0	446.3	444.5	448.1	451.1	449.9	446.9	443.2	437.8
17.5°	423.4	421.6	426.4	428.8	426.4	427.6	430.0	427.6	422.8	419.8	412.6
20°	409.0	404.2	404.2	403.0	398.7	398.7	398.1	393.9	392.1	390.3	387.3
22.5°	392.7	387.3	385.5	381.9	378.3	377.7	375.9	371.7	369.3	368.1	364.5
25°	374.1	369.3	366.3	362.7	357.2	356.0	354.2	350.0	348.8	347.0	344.0
27.5°	354.8	348.8	344.6	341.0	336.2	335.6	332.0	329.0	326.6	325.4	323.0
30°	332.6	326.0	323.0	318.2	314.5	313.3	310.3	306.1	304.3	303.1	301.3
32.5°	307.9	302.5	299.5	295.3	290.5	291.1	287.5	283.9	282.7	281.5	279.7
35°	283.9	278.5	274.9	271.2	268.2	267.0	264.6	261.6	259.8	259.2	258.0
37.5°	257.4	253.2	250.2	246.6	244.2	243.0	241.8	238.8	237.6	237.6	235.2
40°	231.5	227.9	225.5	223.7	220.7	220.1	218.9	217.1	216.5	215.9	214.1
42.5°	208.1	203.3	201.5	200.3	198.5	197.3	196.7	195.5	194.9	194.3	192.5
45°	185.8	181.6	179.8	178.6	176.8	176.2	175.6	173.8	172.6	171.4	170.8
47.5°	164.2	161.2	160.6	157.6	156.4	155.2	154.0	152.8	152.2	151.6	149.2
50°	145.5	143.7	140.7	138.9	137.7	137.1	134.7	132.9	132.3	131.7	129.9
52.5°	128.7	126.3	124.5	121.5	120.9	119.7	118.5	116.1	114.9	114.3	112.5
55°	113.7	111.9	109.5	107.1	105.2	104.6	102.8	100.4	99.2	98.0	96.8
57.5°	101.0	98.0	95.6	93.2	92.0	90.2	88.4	87.2	85.4	83.6	81.8
60°	89.0	86.6	83.6	81.2	80.0	78.8	76.4	74.6	72.8	71.0	69.2
62.5°	77.6	75.2	72.2	69.8	68.6	67.4	65.0	63.1	61.3	59.5	57.1
65°	67.4	65.0	62.5	60.1	58.9	57.7	55.3	52.9	51.1	49.3	46.9
67.5°	58.9	55.9	53.5	51.1	49.9	48.7	46.3	44.5	42.1	40.3	37.9
70°	49.9	47.5	45.7	43.3	42.1	40.9	38.5	36.1	34.3	32.5	30.1
72.5°	42.1	39.1	37.3	34.9	33.7	33.1	30.7	28.9	27.1	24.7	22.9
75°	33.7	31.3	28.9	27.1	25.9	25.3	22.9	21.0	19.2	17.4	15.6
77.5°	25.9	24.1	21.7	19.8	18.6	18.0	15.6	13.8	12.0	10.8	9.0
80°	19.2	16.8	15.6	13.8	13.2	12.0	10.8	9.0	7.8	6.0	4.8
82.5°	13.2	11.4	10.2	9.0	8.4	7.8	6.6	5.4	4.2	3.6	3.0
85°	7.2	6.0	5.4	4.8	4.2	4.2	3.6	3.0	2.4	1.8	1.2
87.5°	2.4	1.8	1.8	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1
2.5°	462.5	462.5	462.5	461.9	461.9	461.9	461.3	463.7	461.3	460.7	462.5
5°	461.9	460.7	460.7	460.7	460.7	460.1	459.5	460.7	458.9	458.3	458.3
7.5°	458.3	457.7	457.7	457.1	456.5	455.9	455.3	455.9	454.1	453.5	453.5
10°	458.9	457.7	457.7	455.9	454.7	452.9	451.1	451.7	449.3	447.5	447.5
12.5°	451.7	448.7	446.9	445.1	443.9	443.2	440.8	442.0	439.6	439.0	439.0
15°	435.4	431.8	428.8	427.6	427.6	426.4	424.6	427.0	425.8	426.4	429.4
17.5°	410.2	408.4	406.6	406.0	406.6	407.8	409.0	412.6	412.6	414.4	417.4
20°	387.9	386.7	387.9	387.9	388.5	390.9	393.3	396.3	397.5	399.3	403.6
22.5°	366.3	366.3	367.5	369.3	368.7	372.9	373.5	378.9	378.9	382.5	386.1
25°	345.2	345.2	346.4	347.0	348.2	350.6	353.0	357.2	358.4	362.1	365.1
27.5°	324.8	324.2	324.2	324.8	326.0	329.0	330.2	335.0	336.8	339.2	342.2
30°	301.9	301.3	302.5	303.7	303.1	306.1	307.9	311.5	312.7	315.1	317.6
32.5°	280.3	280.3	280.3	281.5	281.5	283.9	283.9	288.1	288.1	289.9	292.3
35°	258.0	258.0	258.6	259.2	259.8	260.4	261.0	263.4	264.0	264.6	265.8
37.5°	237.0	236.4	237.0	237.0	235.8	238.2	238.2	240.6	238.8	240.6	241.2
40°	215.3	215.3	214.7	214.7	214.7	215.9	214.7	216.5	215.3	216.5	215.9
42.5°	193.1	193.1	191.9	193.1	192.5	192.5	192.5	193.7	191.9	193.1	193.7
45°	170.8	170.2	170.2	169.6	169.6	169.6	170.2	170.2	169.6	170.8	170.8
47.5°	149.2	148.6	148.6	148.6	148.6	149.2	147.3	148.6	147.3	147.3	147.3
50°	130.5	129.9	129.3	128.7	128.1	128.1	127.5	127.5	126.3	125.7	125.1
52.5°	112.5	111.9	110.7	110.7	110.1	109.5	107.7	107.7	105.9	105.2	105.2
55°	96.2	94.4	93.8	92.6	92.6	91.4	90.2	89.0	87.2	86.0	86.0
57.5°	81.2	79.4	78.2	77.6	77.0	75.8	73.4	72.8	70.4	69.8	69.2
60°	68.0	66.2	64.4	63.1	62.5	60.7	58.3	57.1	55.9	54.1	52.3
62.5°	55.3	53.5	51.1	50.5	49.3	47.5	45.7	43.9	42.7	40.9	39.7
65°	44.5	42.7	40.9	39.7	38.5	36.7	34.9	33.1	31.9	31.3	30.7
67.5°	36.1	33.7	31.9	31.3	30.1	28.9	27.1	26.5	25.3	25.3	25.3
70°	28.3	26.5	24.7	24.1	23.5	22.3	21.0	21.0	21.0	21.0	21.0
72.5°	21.0	19.8	18.0	17.4	16.8	16.2	15.0	15.6	15.0	15.0	15.0
75°	13.2	12.0	10.8	10.2	9.6	9.0	8.4	7.8	7.2	6.6	6.6
77.5°	7.2	6.0	5.4	4.8	4.8	4.2	3.6	3.6	3.0	3.0	3.0
80°	4.2	3.6	3.0	2.4	2.4	1.8	1.8	1.8	1.8	1.2	1.2
82.5°	2.4	1.8	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
85°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1
2.5°	459.5	461.3	459.5	461.3	461.3	461.3	461.3	459.5
5°	456.5	457.7	455.9	457.1	457.7	457.1	457.1	455.3
7.5°	451.1	452.3	450.5	452.3	452.9	452.3	451.7	450.5
10°	445.7	446.3	444.5	445.7	446.9	446.9	446.3	444.5
12.5°	437.2	439.0	437.2	438.4	439.6	440.2	440.2	438.4
15°	427.6	430.6	429.4	431.2	433.0	433.6	433.6	433.0
17.5°	418.0	421.0	419.2	422.2	424.0	425.2	425.8	424.6
20°	404.2	407.8	406.6	409.0	411.4	413.2	413.2	411.4
22.5°	386.1	390.9	390.3	392.1	395.1	395.7	396.9	395.7
25°	366.3	369.9	369.3	371.1	374.7	374.7	375.3	375.3
27.5°	343.4	347.0	346.4	347.6	350.0	350.6	351.2	350.0
30°	318.8	320.6	320.6	322.4	324.2	324.8	324.8	323.0
32.5°	291.7	294.1	295.3	294.7	296.5	297.7	297.1	297.1
35°	267.0	267.6	268.2	268.8	269.4	270.6	269.4	268.8
37.5°	240.6	242.4	241.2	242.4	243.6	243.0	242.4	242.4
40°	216.5	217.1	215.9	217.1	217.7	217.7	217.7	216.5
42.5°	192.5	193.7	192.5	193.7	193.7	193.7	193.7	193.1
45°	168.4	169.6	169.6	170.2	170.2	169.6	169.6	169.6
47.5°	146.1	147.3	146.1	147.3	148.0	146.7	146.7	146.7
50°	125.1	124.5	124.5	125.1	125.1	125.1	125.1	124.5
52.5°	103.4	104.0	104.0	104.0	104.6	104.0	104.6	104.6
55°	84.8	84.8	84.8	85.4	84.8	84.8	85.4	86.0
57.5°	68.0	67.4	66.8	66.8	67.4	66.8	66.8	66.8
60°	52.3	51.7	51.1	51.1	51.1	51.1	51.1	50.5
62.5°	39.1	39.1	39.1	39.7	39.7	39.7	39.7	40.3
65°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.9
67.5°	25.3	25.3	25.3	25.9	25.9	25.9	25.9	25.9
70°	21.0	21.0	21.7	21.0	21.7	21.7	21.7	21.7
72.5°	14.4	14.4	14.4	14.4	14.4	13.8	14.4	13.8
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.4
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)